

The Fundamentals and Benefits of CI/CD

Overview

- ▶ Continuous Integration

The practice of merging all developers' working copies to a shared mainline several times a day.

- ▶ Continuous Deployment

A software engineering approach in which the value is delivered frequently through automated deployments.

Benefits of CI/CD

- ▶ Less bugs in production and less time in testing
- ▶ Less human error, Faster deployments
- ▶ Less infrastructure costs from unused resources
- ▶ Less time to market and provide new features quickly to users
- ▶ Quick undo to return production to working state as we can find problems faster

- ▶ Less developer time on issues from new developer code as every developer's code must run well before merging it to our product
- ▶ Reduced downtime from a deploy-related crash or major bug